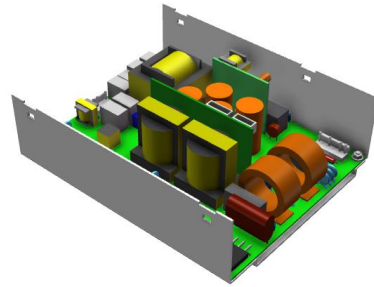


1000W HID 347-400V

NO DIM, STEP

GS-SHW1U19Dx01



LAMP COMPATIBILITY

Lamp type	HPS or MH lamp
Driver tested with	<ul style="list-style-type: none"> ▪ Philips Master GreenPower Plus 1000W EL and Xtra lamps, HPS ▪ Osram Plantastar 1000W lamps latest version, HPS ▪ BLV Horturion/ Ushio Hilux Gro 1000W lamps, HPS ▪ BLV Horturion/ Ushio Hilux Gro AMH-DE 1000W lamps, MH ▪ GSNL 1000W DE EL Plus/Xtra lamps, HPS

OPERATING / ELECTRICAL PARAMETERS

Input voltage range (AC)	347-400V
Input frequency	50/60Hz
Voltage performance tolerance (AC)	312V (-10%@ 347V) ~ 432V (+8%@ 400V)
Safety voltage range (AC)	277V (-20%@ 347V) ~ 440V (+10%@ 400V)
Input current operating (Nom)	3.1A (@347V), 2.7A (@400V)
Ignition voltage (peak-peak)	≥5kV
Ignition timeout	30 min
Max. line current	3.4A
Inrush current peak	<40A (@1.8ms <50%)
Leakage current	<1mA
Total harmonic distortion (THD)	<10% (@347V), <12% (@400V)
Power factor (Nom)	>0.98
U-out	750V
Operating frequency (Nom)	>110 kHz
Efficiency (Nom)	>95%

SYSTEM POWER

Rated input power (tolerance)	1050W (±3%)
Rated ballast-lamp power (tolerance)	1000W (0% ~ +3%)

CONTROLLABILITY

Control or dimming	No
LED indication	Yes (See LED status table)

TEMPERATURE

Max. temperature at Tc point	70°C, (158°F)
Nominal ambient temperature range	0°C – 40°C
Storage temperature range	-25°C – 70°C (RH: 20-95%)

RELIABILITY

Lifetime	35,000 hrs, 95% survivors @Tc = 70°C
----------	--------------------------------------

PROTECTION

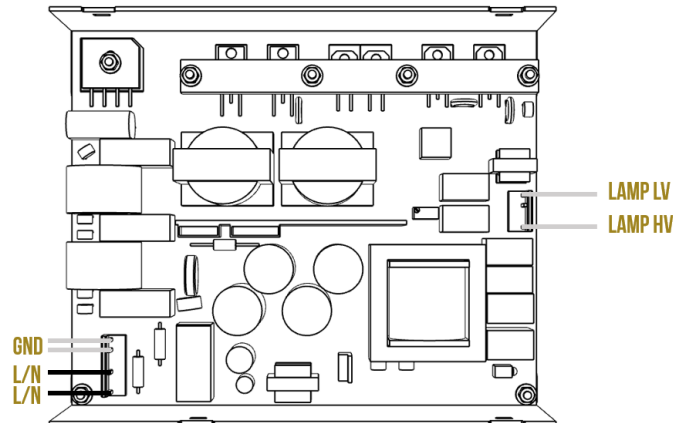
Open circuit protection	Yes
Short circuit protection	Yes
Lamp end-of-life protection	Yes (≥ 330V)
Overheat protection	Yes (Dim to 50% when Tc >70°C)
Undervoltage protection	Yes (Dim to 50% when U _{main} <312V, switch off when U _{main} <277V)
Overvoltage protection	Yes (Switch off when U _{main} >440V)

LED STATUS

No power/ Off	●●●●●●●●●●●●●●●●	Check power
Ignition lamp/ Wait	●●●●●●●●●●●●●●●●	No action needed
Driver on	●●●●●●●●●●●●●●●●	No action needed
Ignition failure (Timeout)	●●●●●●●●●●●●●●●●	Check lamp cable and lamp, reset
Undervoltage	●●●●●●●●●●●●●●●●	Check mains voltage
Undervoltage occurred	●●●●●●●●●●●●●●●●	Check mains voltage, reset
Overvoltage	●●●●●●●●●●●●●●●●	Check mains voltage
Overvoltage occurred	●●●●●●●●●●●●●●●●	Check mains voltage, reset
Overheat	●●●●●●●●●●●●●●●●	Check environment temp
Overheat occurred	●●●●●●●●●●●●●●●●	Check environment temp, reset


WIRING

Input connector	VH-6P4C, or WAGO on request
Output connector	VH-4P3C, or WAGO on request
Cable capacitive allowed	250 pF max

WIRING DIAGRAM

MECHANICAL DATA

Dimension L*W*H	181*150*58mm
Weight	960g
U-bracket type	Step
Max. ballast to lamp distance	0.5m

APPROVALS AND APPLICATION

General and safety standards	EN61347-1:2015, EN61347-2-12:2005+A1:2010 CAN/CSA-C22.2 No. 74-16 UL 1029 Fifth Edition
Surge protection	EN61547 (L-L 2kV, L-G 4kV)
EMC	IEC CISPR 15+A1:2015 with EN61547:2009
Quality standard	ISO 9001:2015
Harmonics	IEC61000-3-2:2014, EN61000-3-3:2013
Approvals marks	

LUMINAIRE

Luminaire classification	Class I, driver needs protected earth
IP classification	Driver housing needs to be IP65

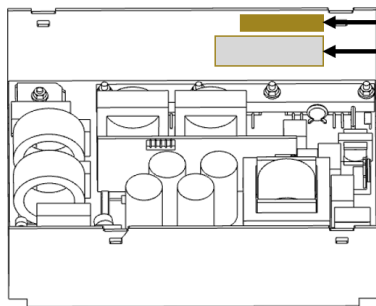
ORDERING INFORMATION


Article number 100350

Model number GS-SHW1U19Dx01

Packaging

	Product per packaging (pcs)	Packaging size (mm)	Packaging N.W. (kg)	Packaging G.W. (kg)	Note
Crate	270	1200*800*710	270	310	30 drivers per layer (5*6), 9 layers
Pallet	810	1200*800*2130	810	930	3 crates stacked per pallet place
40ft Container (GP or HQ)	19440	/	19440	22320	24 pallets in one 40ft container


 Production Serial Number
 Product Label

GS(NL 1000 347-400							GS-SHW1U19Dx01	
Electronic ballast for 1000W HPS lamps								
⊕ ⊖	U _n [V~]	I _n [A]	I _{max} [A]	f _n [Hz]	Pf _n	THD	T _{Cmax} [C]	U-out=750V
⊕ ⊖	347	3.1	3.4	50/60	≥ 0.98	≤ 10%	70	
⊕ N/L	400	2.7	3.0	50/60	≥ 0.97	≤ 12%	70	 U _p =3.2kV
⊕ N/L	MAINS Max. Ambient Temperature=40°C							
Made in PRC							